



IFWO

RAW SEQUENCE LISTING

DATE: 08/05/2004

PATENT APPLICATION: US/10/764,921B

TIME: 10:28:53

Input Set : A:\19907YIACB SEQ.TXT

Output Set: N:\CRF4\08052004\J764921B.raw

ENTERED

```

4 <110> APPLICANT: Volkin, David B.
5     Evans, Robert K.
6     Ulmer, Jeffrey B.
7     Caulfield, Michael J.
9 <120> TITLE OF INVENTION: POLYNUCLEOTIDE VACCINE FORMULATIONS
12 <130> FILE REFERENCE: 19907YIACB
14 <140> CURRENT APPLICATION NUMBER: 10/764,921B
15 <141> CURRENT FILING DATE: 2004-01-26
17 <150> PRIOR APPLICATION NUMBER: 09/950,844
18 <151> PRIOR FILING DATE: 2001-09-12
20 <150> PRIOR APPLICATION NUMBER: 09/112,655
21 <151> PRIOR FILING DATE: 1998-07-09
23 <150> PRIOR APPLICATION NUMBER: 09/023,834
24 <151> PRIOR FILING DATE: 1998-02-13
26 <150> PRIOR APPLICATION NUMBER: 60/038,194
27 <151> PRIOR FILING DATE: 1997-02-14
29 <160> NUMBER OF SEQ ID NOS: 14
31 <170> SOFTWARE: FastSEQ for Windows Version 4.0
33 <210> SEQ ID NO: 1
34 <211> LENGTH: 23
35 <212> TYPE: DNA
36 <213> ORGANISM: Artificial Sequence
38 <220> FEATURE:
39 <223> OTHER INFORMATION: Oligonucleotide
41 <400> SEQUENCE: 1
42 ctatataagc agagctcggt tag
44 <210> SEQ ID NO: 2
45 <211> LENGTH: 30
46 <212> TYPE: DNA
47 <213> ORGANISM: Artificial Sequence
49 <220> FEATURE:
50 <223> OTHER INFORMATION: Oligonucleotide
52 <400> SEQUENCE: 2
53 gtagcaaaga tctaaggacg gtgactgcag
55 <210> SEQ ID NO: 3
56 <211> LENGTH: 39
57 <212> TYPE: DNA
58 <213> ORGANISM: Artificial Sequence
60 <220> FEATURE:
61 <223> OTHER INFORMATION: Oligonucleotide
63 <400> SEQUENCE: 3
64 gtatgtgtct gaaaatgagc gtggagattg ggctcgcac
66 <210> SEQ ID NO: 4

```

23

30

39

RAW SEQUENCE LISTING

DATE: 08/05/2004

PATENT APPLICATION: US/10/764,921B

TIME: 10:28:53

Input Set : A:\19907YIACB SEQ.TXT

Output Set: N:\CRF4\08052004\J764921B.raw

67 <211> LENGTH: 39
68 <212> TYPE: DNA
69 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: Oligonucleotide
74 <400> SEQUENCE: 4
75 gtgcgagccc aatctccacg ctcattttca gacacatac 39
77 <210> SEQ ID NO: 5
78 <211> LENGTH: 78
79 <212> TYPE: DNA
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: Oligonucleotide
85 <400> SEQUENCE: 5
86 gatcaccatg gatgcaatga agagagggct ctgctgtgtg ctgctgtgtg gtggagcagt 60
87 cttegtttcg cccagcga 78
89 <210> SEQ ID NO: 6
90 <211> LENGTH: 78
91 <212> TYPE: DNA
92 <213> ORGANISM: Artificial Sequence
94 <220> FEATURE:
95 <223> OTHER INFORMATION: Oligonucleotide
97 <400> SEQUENCE: 6
98 gatctcgctg ggcgaaacga agactgctcc acacagcagc agcacacagc agagccctct 60
99 cttcattgca tccatggt 78
101 <210> SEQ ID NO: 7
102 <211> LENGTH: 33
103 <212> TYPE: DNA
104 <213> ORGANISM: Artificial Sequence
106 <220> FEATURE:
107 <223> OTHER INFORMATION: Oligonucleotide
109 <400> SEQUENCE: 7
110 ggtacaaata ttggctattg gccattgcat acg 33
112 <210> SEQ ID NO: 8
113 <211> LENGTH: 36
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial Sequence
117 <220> FEATURE:
118 <223> OTHER INFORMATION: Oligonucleotide
120 <400> SEQUENCE: 8
121 ccacatctcg aggaaccggg tcaattcttc agcacc 36
123 <210> SEQ ID NO: 9
124 <211> LENGTH: 38
125 <212> TYPE: DNA
126 <213> ORGANISM: Artificial Sequence
128 <220> FEATURE:
129 <223> OTHER INFORMATION: Oligonucleotide
131 <400> SEQUENCE: 9
132 ggtacagata tcggaaagcc acgttggtgc tcaaaatc 38

RAW SEQUENCE LISTING

DATE: 08/05/2004

PATENT APPLICATION: US/10/764,921B

TIME: 10:28:53

Input Set : A:\19907YIACB SEQ.TXT

Output Set: N:\CRF4\08052004\J764921B.raw

```

134 <210> SEQ ID NO: 10
135 <211> LENGTH: 36
136 <212> TYPE: DNA
137 <213> ORGANISM: Artificial Sequence
139 <220> FEATURE:
140 <223> OTHER INFORMATION: Oligonucleotide
142 <400> SEQUENCE: 10
143 cacatggatc cgtaatgctc tgccagtgtt acaacc 36
145 <210> SEQ ID NO: 11
146 <211> LENGTH: 39
147 <212> TYPE: DNA
148 <213> ORGANISM: Artificial Sequence
150 <220> FEATURE:
151 <223> OTHER INFORMATION: Oligonucleotide
153 <400> SEQUENCE: 11
154 ggtacatgat cacgtagaaa agatcaaagg atcttcttg 39
156 <210> SEQ ID NO: 12
157 <211> LENGTH: 35
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <223> OTHER INFORMATION: Oligonucleotide
164 <400> SEQUENCE: 12
165 ccacatgtcg acccgtaaaa aggccgcggt gctgg 35
167 <210> SEQ ID NO: 13
168 <211> LENGTH: 9
169 <212> TYPE: PRT
170 <213> ORGANISM: Human Influenza Virus (peptide epitope)
172 <220> FEATURE:
173 <223> OTHER INFORMATION: peptide
175 <400> SEQUENCE: 13
176 Thr Tyr Gln Arg Thr Arg Ala Leu Val
177 1 5
180 <210> SEQ ID NO: 14
181 <211> LENGTH: 12
182 <212> TYPE: PRT
183 <213> ORGANISM: Hepatitis B virus (peptide epitope)
185 <220> FEATURE:
186 <223> OTHER INFORMATION: peptide
188 <400> SEQUENCE: 14
189 Ile Pro Gln Ser Leu Asp Ser Trp Trp Tyr Ser Leu
190 1 5 10

```

VERIFICATION SUMMARY

DATE: 08/05/2004

PATENT APPLICATION: US/10/764,921B

TIME: 10:28:54

Input Set : A:\19907YIACB SEQ.TXT

Output Set: N:\CRF4\08052004\J764921B.raw